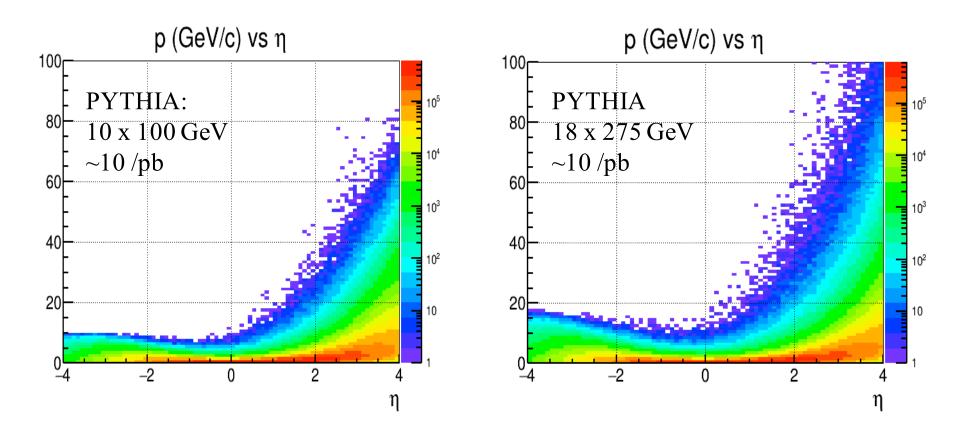
Need for a preshower in h-endcup?

A.Bazilevsky
YR-Calorimetry TG meeting
Aug 18, 2020

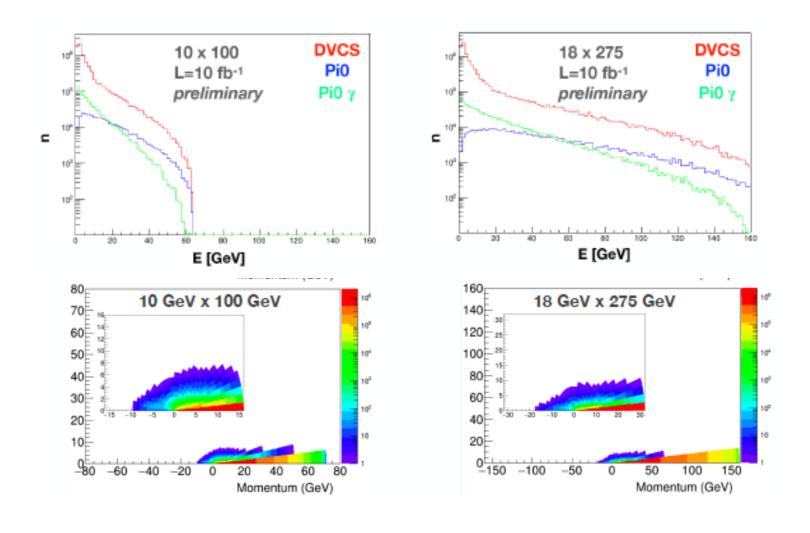
$\pi 0$ in SiDIS



May need to measure up to 100 GeV/c and beyond

$\pi 0$ in Exclusive DIS

From YR-Exclusive group
Theory calc. (Miami meeting)

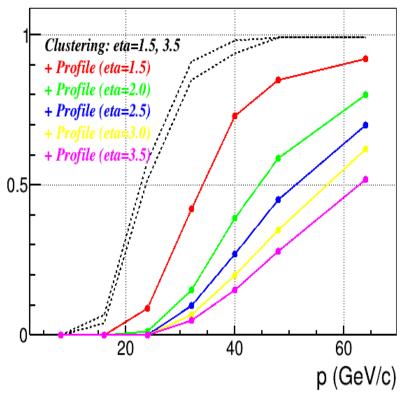


May need to measure up to 100 GeV/c and beyond

h-endcup EMCal capability

High granularity/density h-endcap EMCal: $2.5\times2.5 \text{ cm}^2$ granularity at z=3m

Pi0 merging prob vs p

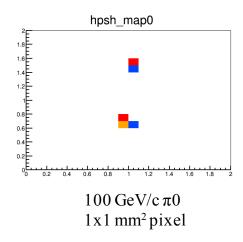


Limited EMCal performance at high p

Significant deterioration at lower rapidity (for non-projective EMCal)

For projective EMCal, all colored curves will be at or below the magenta one

Preshower



Preshower with granularity <3mm would do the job

Two photons from 150 (100) GeV/c π 0 are separated by ~

5.5mm (~8mm) in the EMCal

Also improves photon position resolution and e/h separation

Still a lot of points to clarify

Rapidity coverage

Converter thickness

Number of layers